

## CLAIMS

1. A modified flame retarded resin molding composition with enhanced weatherable properties comprising a polyester and polycarbonate blend with an organopolysiloxane-polycarbonate and a acrylic impact modifier for enhancing weatherability and a flame retarding amount of a halogenated flame retardant.

2. A flame retarded resin molding composition according to claim 1 wherein the acrylic rubber has a particle size of from 300 to 800 nm.

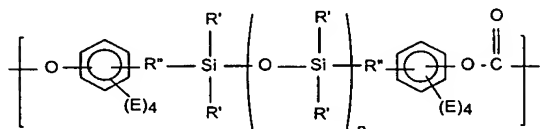
3. A flame retarded resin molding composition according to claim 1 wherein said acrylic core shell rubber comprises a multi-phase composite interpolymer comprising about 25 to 95 weight percent of a first acrylic elastomeric phase polymerized from a monomer system comprising about 75 to 99.8% by weight C<sub>1</sub> to C<sub>14</sub> alkyl acrylate, 0.1 to 5% by weight cross linking member, 0.1 to 5% by weight graft linking monomer, said cross linking monomer being a polyethylenically unsaturated monomer having a plurality of addition polymerizable reactive groups and about 75 to 5 weight percent of a final, rigid thermoplastic acrylic or methacrylic phase polymerized in the presence of said elastomer.

4. A flame retarded resin molding composition according to claim 1 wherein said acrylic core shell rubber comprises a multi-phase composite interpolymer comprising about 25 to 95 weight percent of a first acrylic elastomeric phase polymerized from a monomer system comprising about 75 to 99.8% by weight C<sub>1</sub> to C<sub>14</sub> alkyl acrylate, 0.1 to 5% by weight cross linking member, 0.1 to 5% by weight graft linking monomer, said cross linking monomer being a polyethylenically unsaturated monomer having a plurality of addition polymerizable reactive groups and about 75 to 5 weight percent of a final, rigid thermoplastic acrylic or methacrylic phase polymerized in the presence of said elastomer.

5. A flame retarded resin molding composition according to claim 1 wherein said acrylic core shell rubber comprises a multi-phase composite interpolymer comprising about 25 to 95 weight percent of a first elastomeric phase polymerized from a monomer system comprising about 5-50 % polydimethylsiloxane, 30 to 99.8% by weight C<sub>1</sub> to C<sub>14</sub> alkyl acrylate, 0.1 to 5% by weight cross linking member, 0.1 to

5% by weight graft linking monomer, said cross linking monomer being a polyethylenically unsaturated monomer having a plurality of addition polymerizable reactive groups and about 75 to 5 weight percent of a final, rigid thermoplastic acrylic or methacrylic phase polymerized in the presence of said elastomer.

- 5            6. A flame retarded resin molding composition according to claim 1 wherein said organopolysiloxane-polycarbonate copolymer comprises organopolysiloxane blocks having repeating units of the general formula:



7. wherein R' is a member selected from the class of monovalent hydrocarbon radicals, halogenated monovalent hydrocarbon radicals and cyanoalkyl radicals; E is independently selected from the group consisting of hydrogen, lower alkyl, alkoxy radicals, aryl, and alkylaryl, halogen radicals and mixtures thereof, and R'' is a divalent hydrocarbon radical, and n is from about 10 to about 120.

8. A flame retarded resin molding composition according to claim 2 wherein said organopolysiloxane-polycarbonate copolymer comprises polycarbonate blocks

having repeating units of the general formulae:  $\left[ \text{O} - \text{C}_6\text{H}_4(\text{E})_4 - \text{D} - \text{C}_6\text{H}_4(\text{E})_4 - \text{O} - \text{C}(=\text{O}) - \right]$  and D is a divalent hydrocarbon radical containing from 1-15 carbon atoms; -S-, -SO-, -S(O)<sub>2</sub>-, -O-.

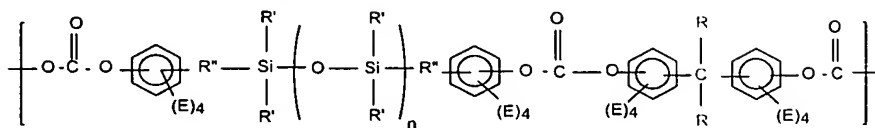
9. A flame retarded resin molding composition according to claim 3 wherein said organopolysiloxane-polycarbonate copolymer comprises polycarbonate blocks

having repeating units of the general formulae:  $\left[ \text{O} - \text{C}_6\text{H}_4(\text{E})_4 - \text{C} \begin{array}{c} \text{R} \\ | \\ \text{R} \end{array} - \text{C}_6\text{H}_4(\text{E})_4 - \text{O} - \text{C}(=\text{O}) - \right]$

wherein R is a member selected from the class of hydrogen, cycloaliphatic, aryl, monovalent hydrocarbon radicals, aryl or alkylaryl.

10. A flame retarded resin molding composition according to claim 1 wherein said organopolysiloxane-polycarbonate copolymer comprises organopolysiloxane

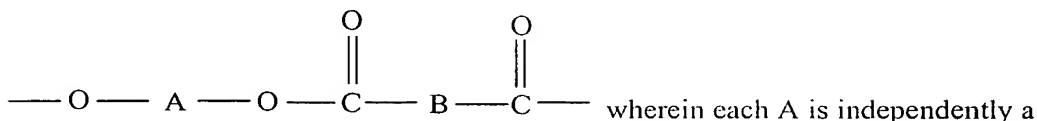
blocks having repeating units of the general formulae:



11. A flame retarded resin molding compositions according to claim 5 wherein E is independently selected from the group consisting of hydrogen, alkyl of 1 to 6 carbon atoms, and halogen.

12. A flame retarded resin molding compositions according to claim 1 wherein said acrylic impact modifier comprises first repeating units derived one or more glycidyl ester monomers and second repeating units derived from one or more  $\alpha$ -olefin monomers.

13. A flame retarded resin molding compositions according to claim 1 wherein said polyester is derived from an aliphatic diol and an aromatic dicarboxylic acid having repeating units of the following general formula:



5 divalent aliphatic, salicylic or aromatic hydrocarbon or polyoxyalkylene radical, or mixtures thereof and each B is independently a divalent aliphatic, salicylic or aromatic radical, or mixtures thereof.

14. A flame retarded resin molding compositions according to claim 1 wherein comprises an aromatic polycarbonate resin comprises one or more resins  
10 selected from linear aromatic polycarbonate resins, branched aromatic polycarbonate resins and poly(ester-carbonate) resins.

15. A flame retarded resin molding compositions according to claim 1 wherein said polycarbonate comprises a linear aromatic polycarbonate resin.

16. flame retarded resin molding compositions according to claim 1 wherein said polycarbonate comprises a poly (ester carbonate)

17. A flame retarded resin molding compositions according to claim 1 wherein the resin comprises from 20 to 80 parts by weight of the polycarbonate resin;

from 20 to 80 parts by weight of the polyester resin; from 5 to 30 parts by weight of the organopolysiloxane-polycarbonate block copolymer; and from 1 to 10 parts by weight of the glycidyl ester impact modifier, each based on 100 parts by weight of the blend.

18. A flame retarded resin molding compositions according to claim 1 wherein the resin comprises from 25 to 55 parts by weight, of the polycarbonate resin; from 25 to 55 parts by weight of the polyester resin; from 10 to 20 parts by weight of the organopolysiloxane-polycarbonate block copolymer; and from 2 to 8 parts by weight of the acrylic impact modifier, each based on 100 parts by weight of the blend.

19. A flame retarded resin molding composition according to claim 1 wherein said flame retardant is a halogenated epoxy, poly (haloarylmethacrylate), halogenated polystyrene or a poly (haloarylacrylate) flame retardant.

20. A flame retarded resin molding composition according to claim 1 wherein said flame retardant is a polybromobenzylacrylate flame retardant

21. An article molded from the composition of claim 1.

22. A molded article according to claim 18 comprising an injection molded article.

23. A molded article according to claim 18 comprising an enclosures.

24. A molded article according to claim 20 for use in an electrical communication device.

25. A molded article according to claim 21 comprising a cable connector, telephone, computer, video, and network interface devices for residential, commercial or industrial use.